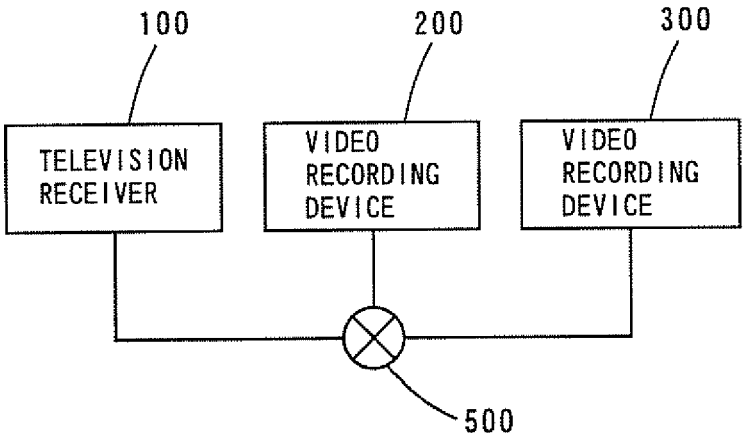
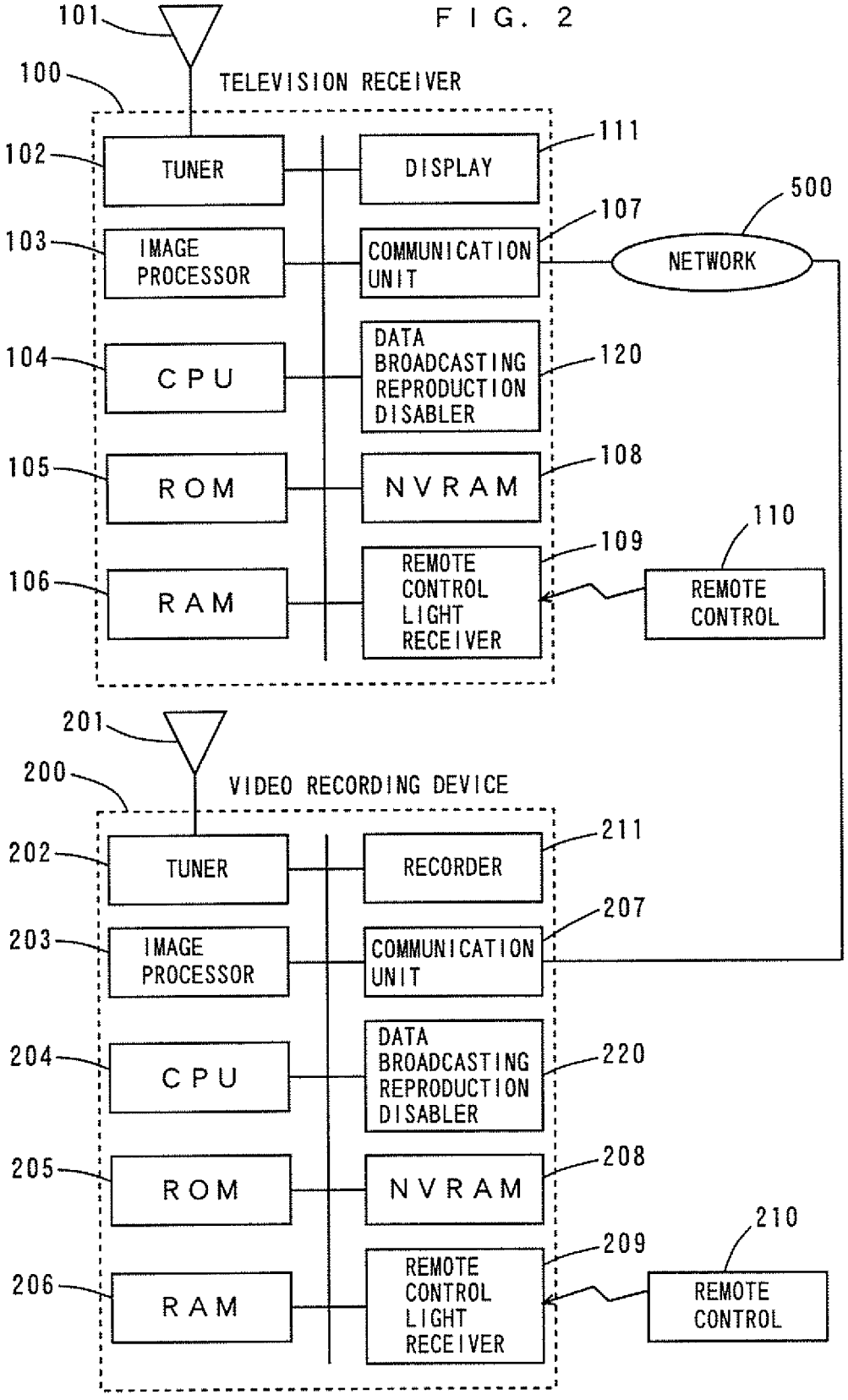
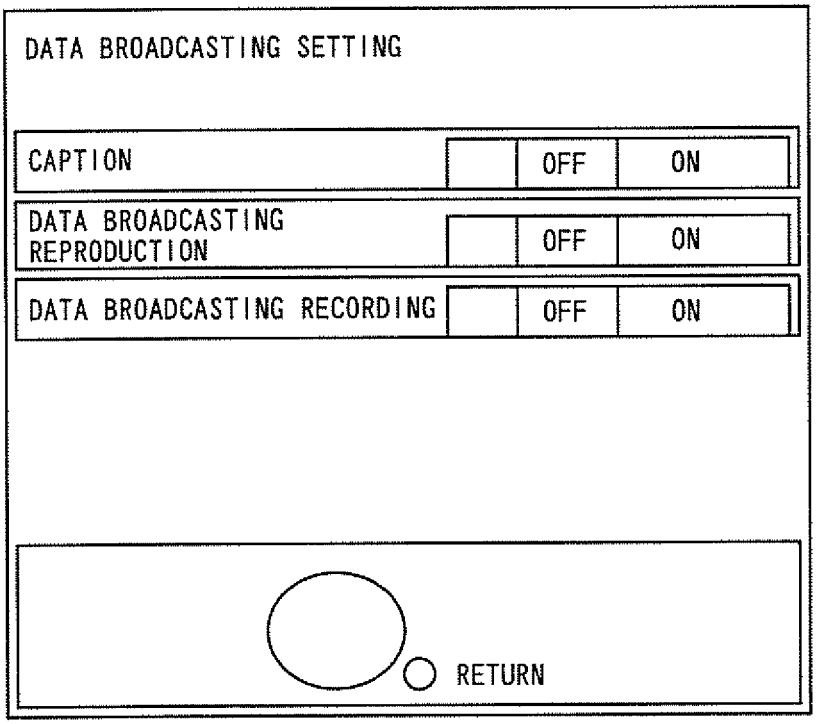
F I G. 1


100
200
300
TELEVISION RECEIVER
VIDEO RECORDING DEVICE
VIDEO RECORDING DEVICE
500

F I G. 2


101
100
TELEVISION RECEIVER
102
TUNER
111
DISPLAY
500
103
IMAGE PROCESSOR
107
COMMUNICATION UNIT
NETWORK
104
CPU
DATA BROADCASTING REPRODUCTION DISABLER
120
105
ROM
NVRAM
108
110
106
RAM
109
REMOTE CONTROL LIGHT RECEIVER
REMOTE CONTROL
201
200
VIDEO RECORDING DEVICE
202
TUNER
RECORDER
211
203
IMAGE PROCESSOR
COMMUNICATION UNIT
207
204
CPU
DATA BROADCASTING REPRODUCTION DISABLER
220
205
ROM
NVRAM
208
210
206
RAM
209
REMOTE CONTROL LIGHT RECEIVER
REMOTE CONTROL

F I G. 3


DATA BROADCASTING SETTING
CAPTION
OFF
ON
DATA BROADCASTING REPRODUCTION
OFF
ON
DATA BROADCASTING RECORDING
OFF
ON
RETURN

F I G. 4

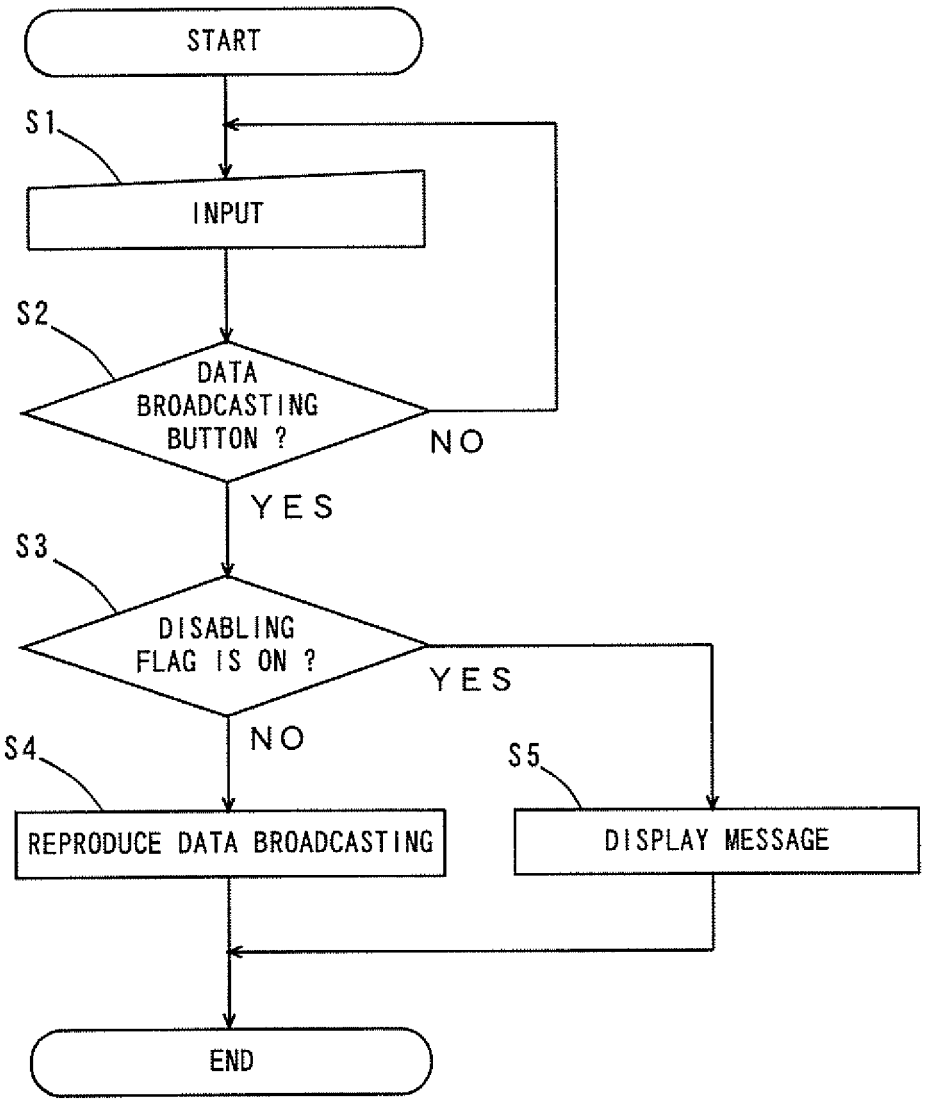
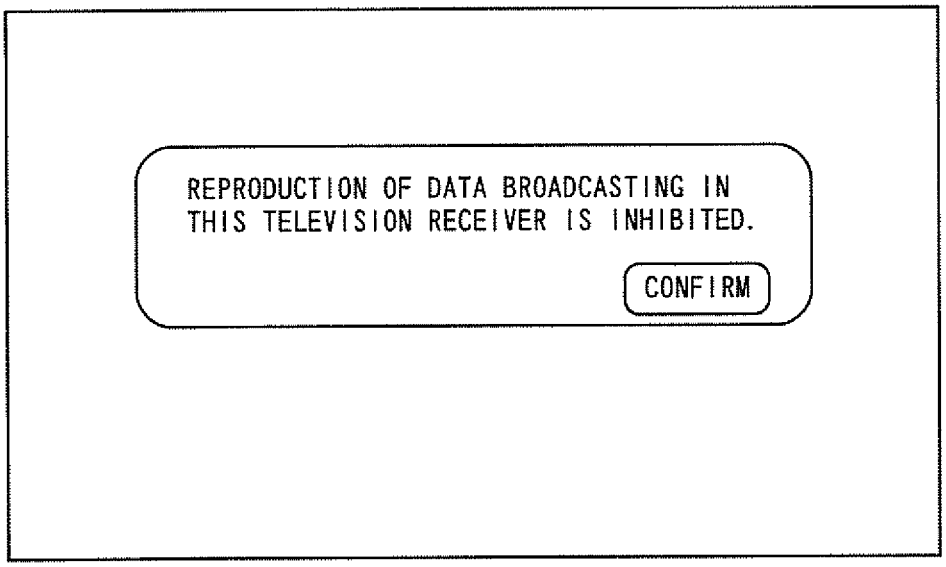

START
S1
INPUT
S2
DATA BROADCASTING BUTTON ?
NO
YES
S3
DISABLING FLAG IS ON ?
YES
NO
S4
S5
REPRODUCE DATA BROADCASTING
DISPLAY MESSAGE
END

FIG. 5


REPRODUCTION OF DATA BROADCASTING IN
THIS TELEVISION RECEIVER IS INHIBITED.
CONFIRM

F I G. 6

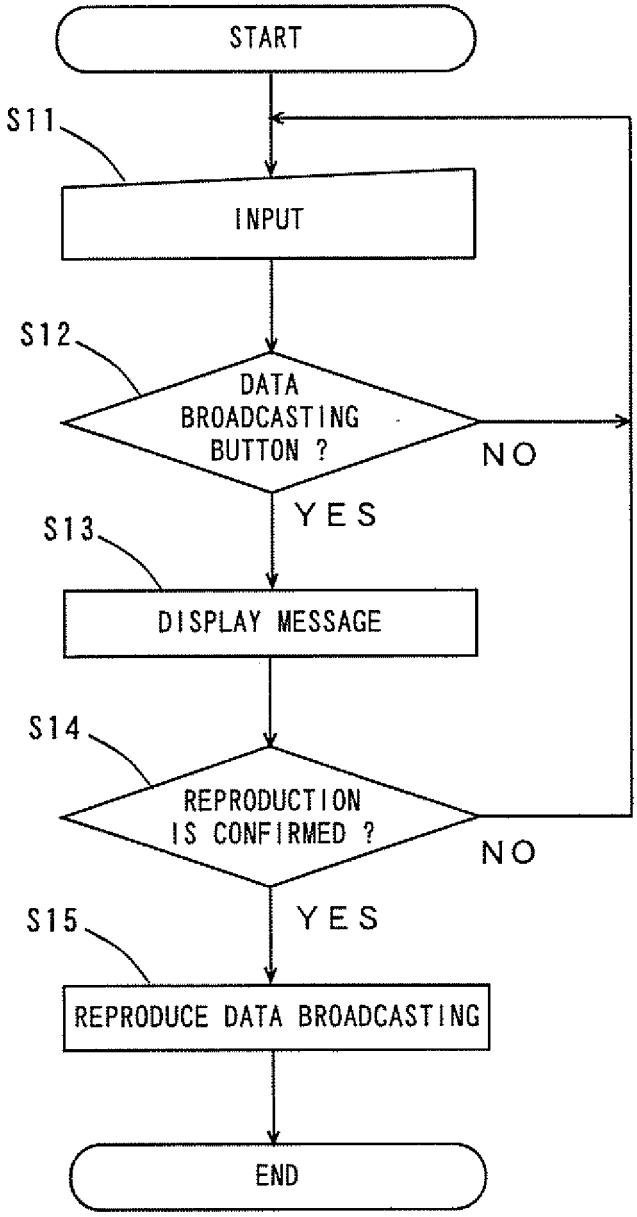
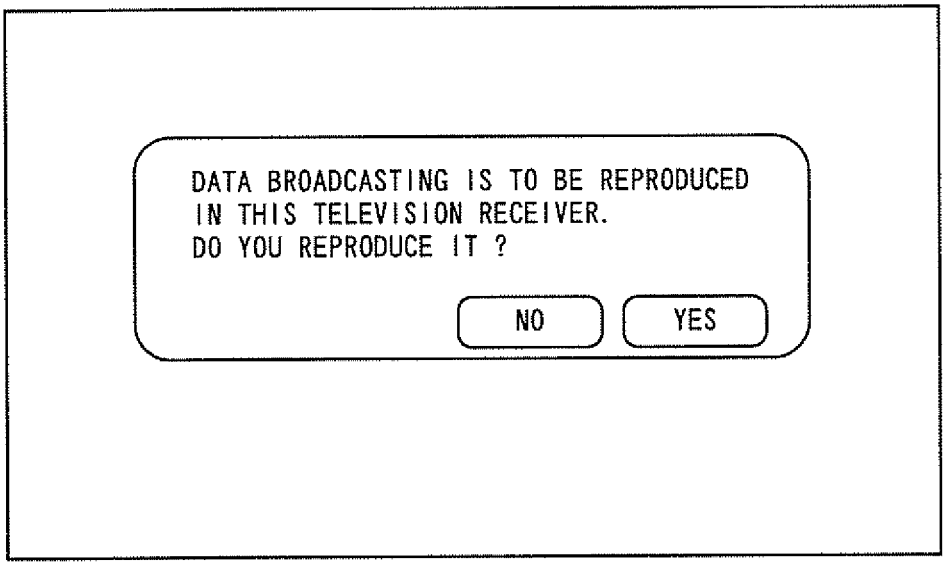

START
S11
INPUT
S12
DATA BROADCASTING BUTTON ?
NO
YES
S13
DISPLAY MESSAGE
S14
REPRODUCTION IS CONFIRMED ?
NO
YES
S15
REPRODUCE DATA BROADCASTING
END

FIG. 7


DATA BROADCASTING IS TO BE REPRODUCED
IN THIS TELEVISION RECEIVER.
DO YOU REPRODUCE IT ?
NO
YES

F I G. 8

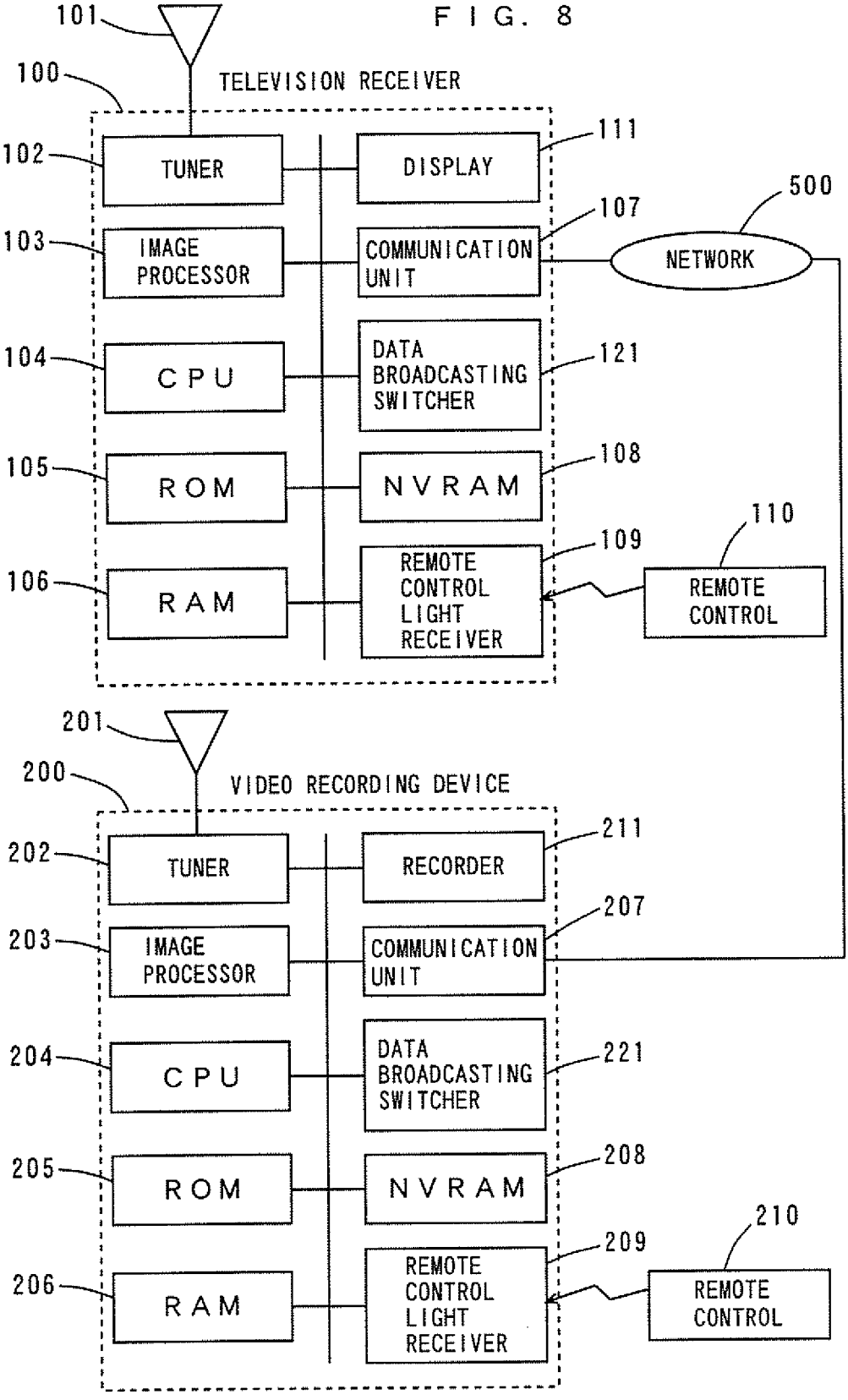
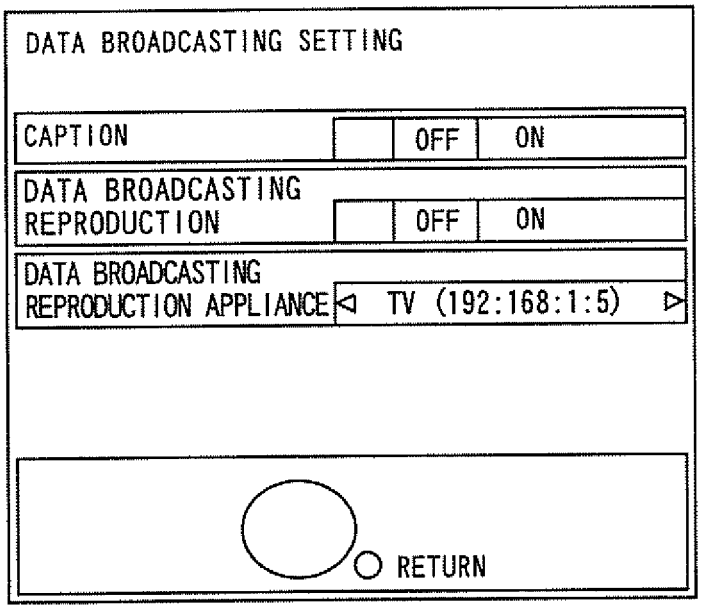

101
100
TELEVISION RECEIVER
102
TUNER
111
DISPLAY
500
107
103
IMAGE PROCESSOR
COMMUNICATION UNIT
NETWORK
104
CPU
DATA BROADCASTING SWITCHER
121
105
ROM
NVRAM
108
110
109
106
RAM
REMOTE CONTROL LIGHT RECEIVER
REMOTE CONTROL
201
200
VIDEO RECORDING DEVICE
202
TUNER
RECORDER
211
207
203
IMAGE PROCESSOR
COMMUNICATION UNIT
204
CPU
DATA BROADCASTING SWITCHER
221
205
ROM
NVRAM
208
210
209
206
RAM
REMOTE CONTROL LIGHT RECEIVER
REMOTE CONTROL

FIG. 9


DATA BROADCASTING SETTING
CAPTION
OFF
ON
DATA BROADCASTING REPRODUCTION
OFF
ON
DATA BROADCASTING REPRODUCTION APPLIANCE
TV (192:168:1:5)
RETURN
TV (192:168:1:5)
VIDEO (192:168:1:8)
PERSONAL COMPUTER (192:168:1:21)
ETC.

F I G. 1 0

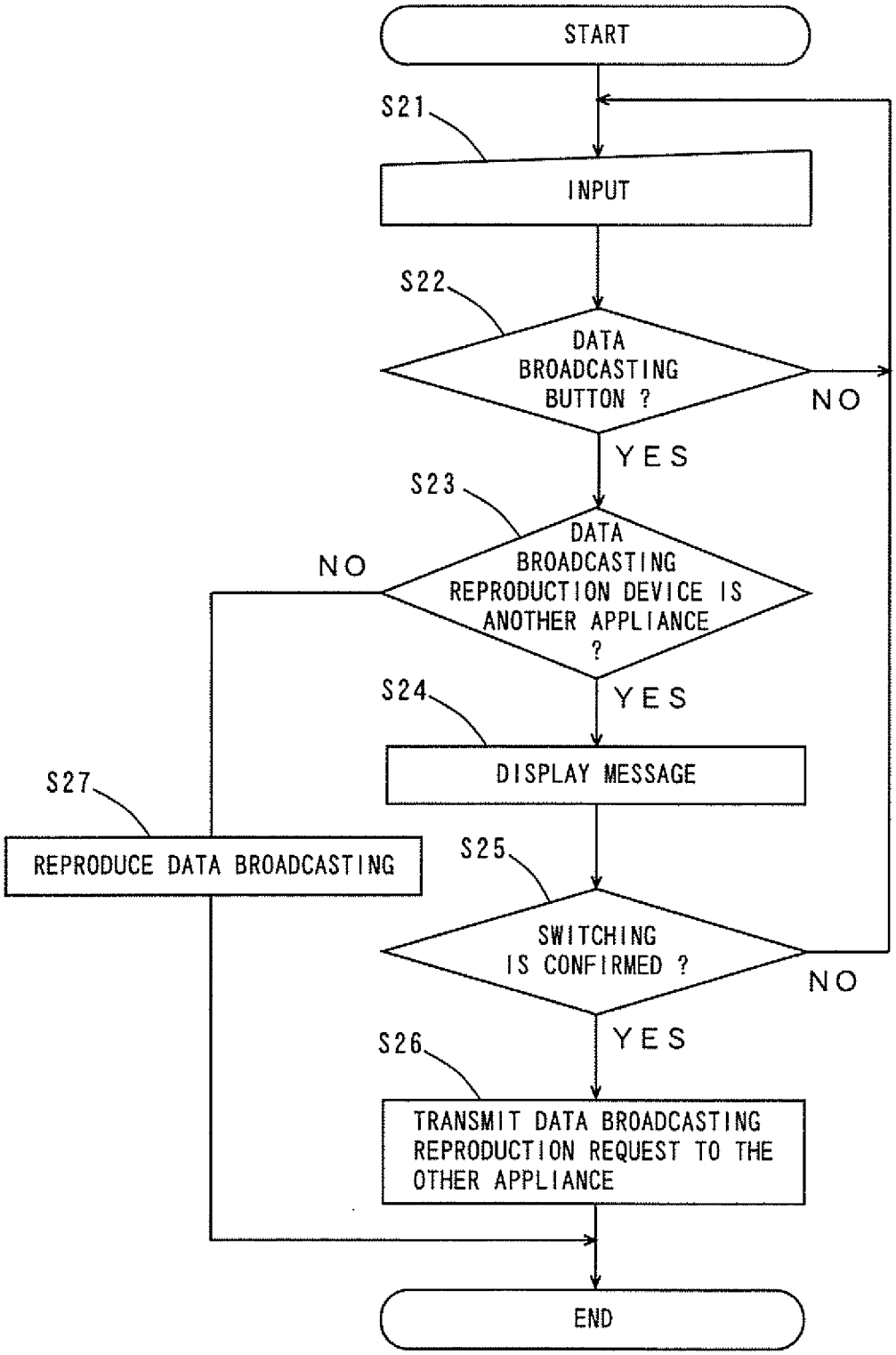
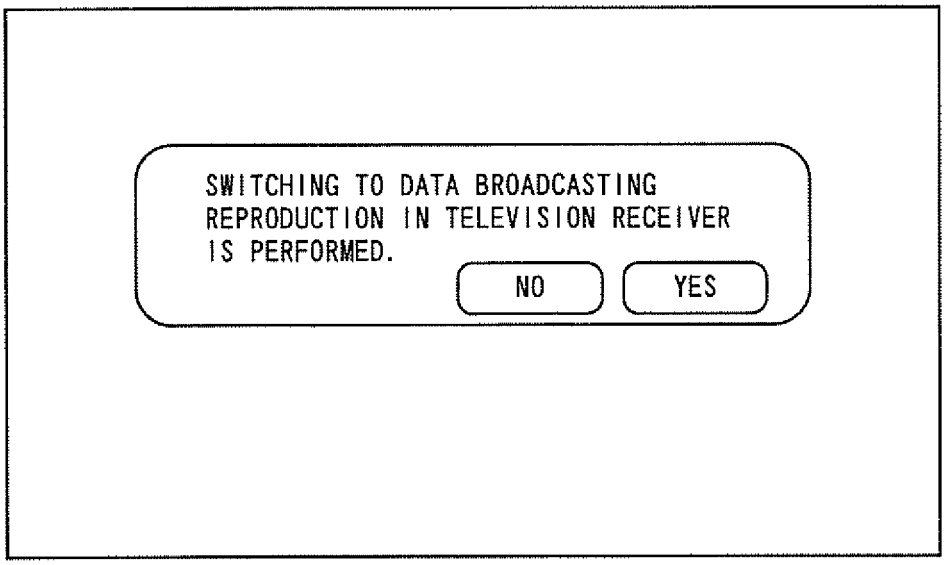

START
S21
INPUT
S22
DATA BROADCASTING BUTTON ?
NO
YES
S23
DATA BROADCASTING REPRODUCTION DEVICE IS ANOTHER APPLIANCE ?
NO
YES
S24
DISPLAY MESSAGE
S27
REPRODUCE DATA BROADCASTING
S25
SWITCHING IS CONFIRMED ?
NO
YES
S26
TRANSMIT DATA BROADCASTING REPRODUCTION REQUEST TO THE OTHER APPLIANCE
END

FIG. 11


SWITCHING TO DATA BROADCASTING
REPRODUCTION IN TELEVISION RECEIVER
IS PERFORMED.
NO
YES

F I G. 1 2

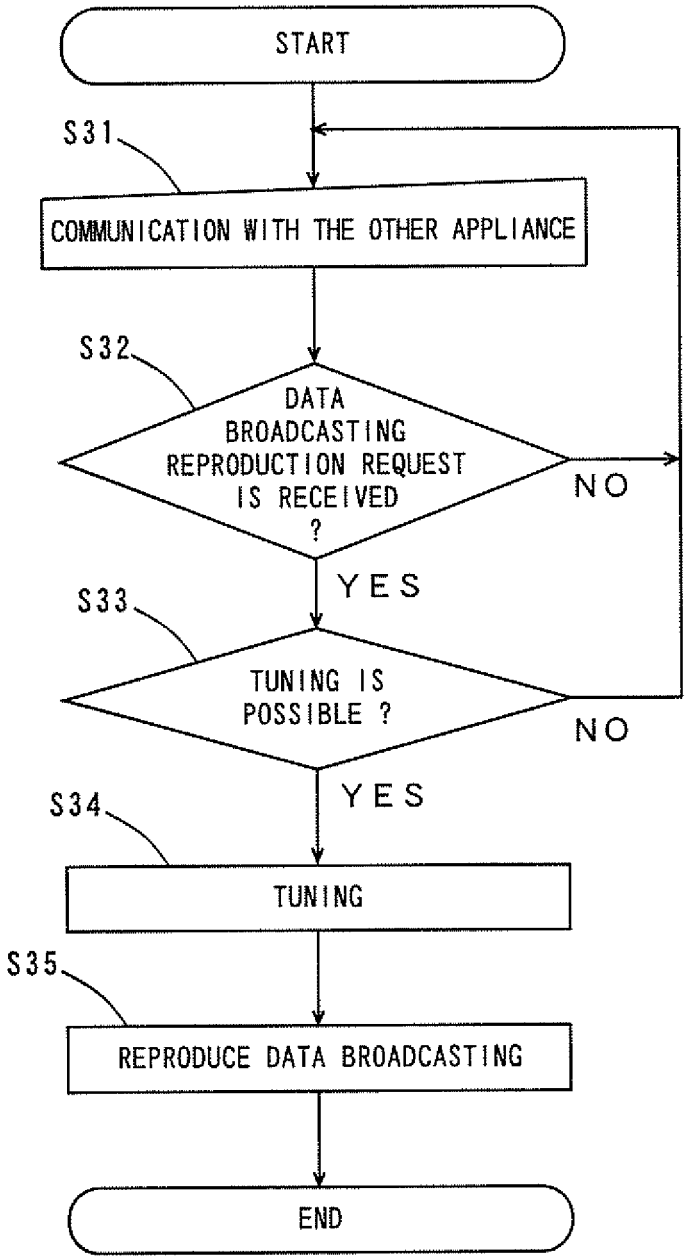

START
S31
COMMUNICATION WITH THE OTHER APPLIANCE
S32
DATA BROADCASTING REPRODUCTION REQUEST IS RECEIVED ?
NO
YES
S33
TUNING IS POSSIBLE ?
NO
YES
S34
TUNING
S35
REPRODUCE DATA BROADCASTING
END

FIG. 13

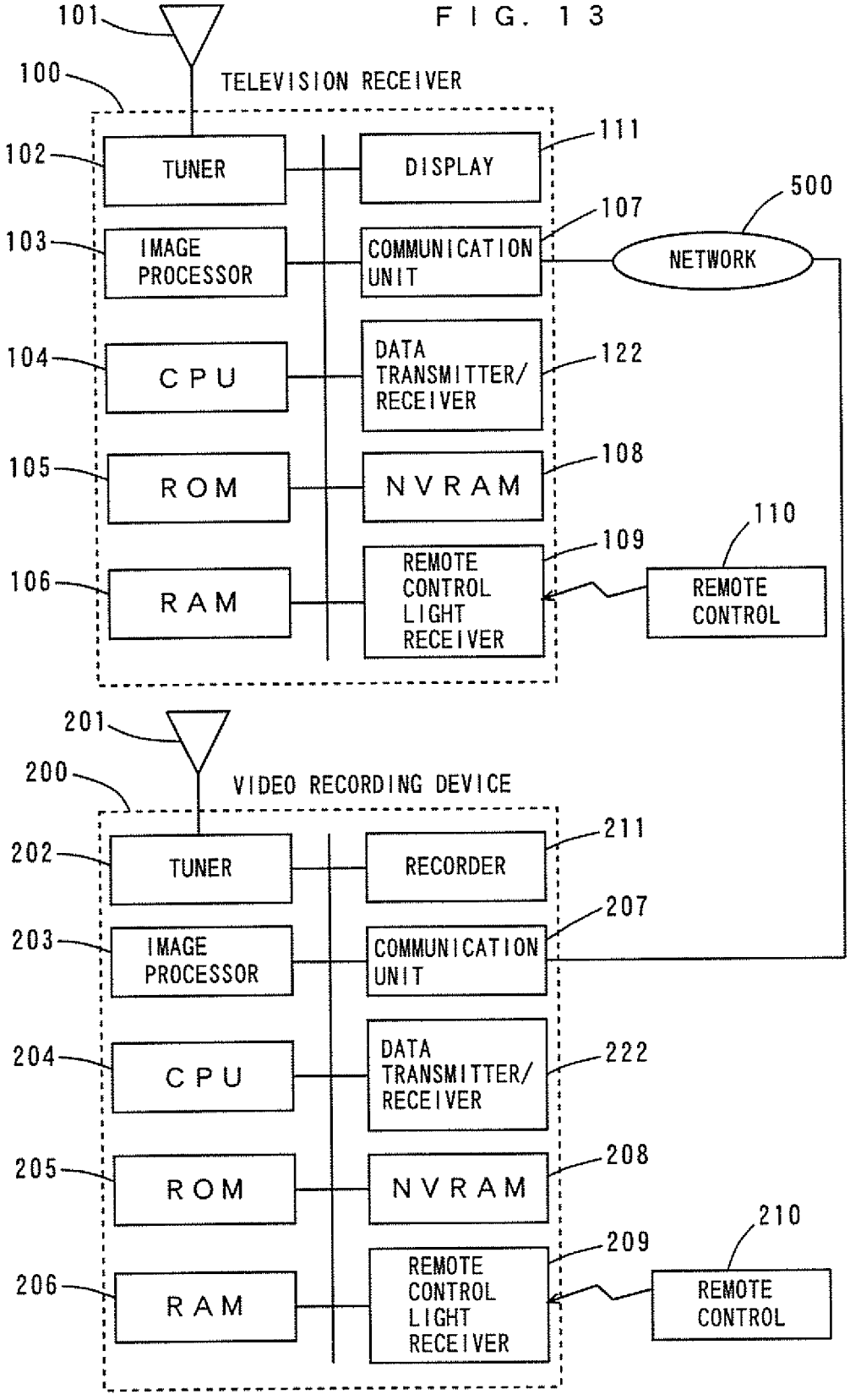
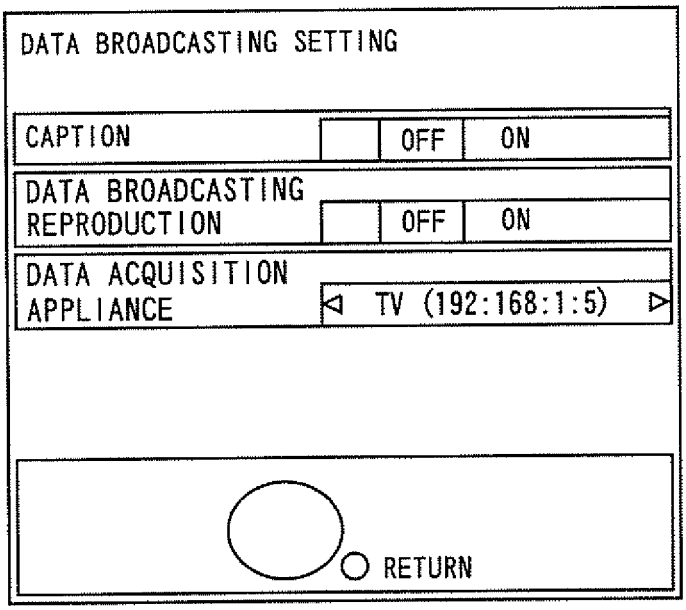
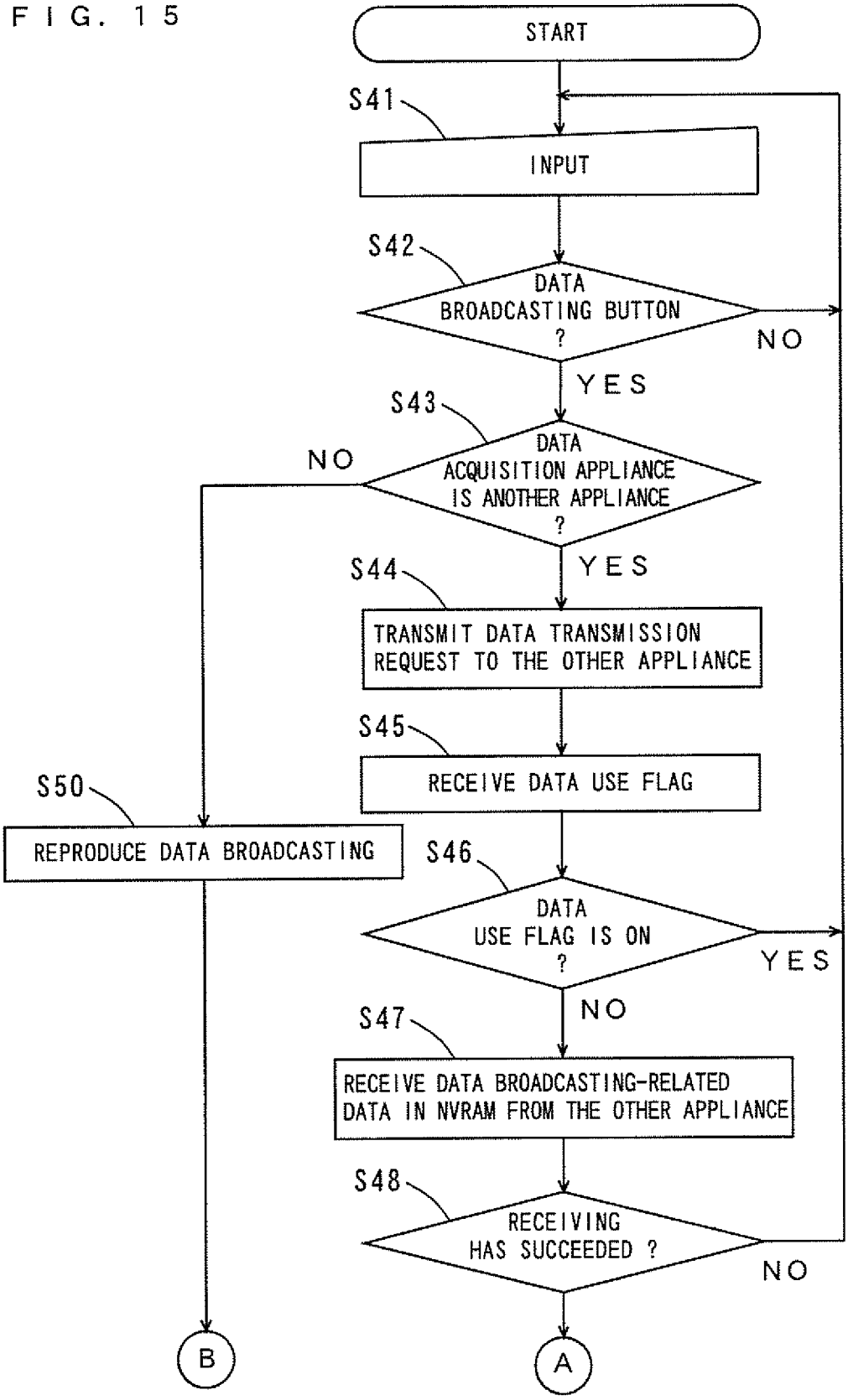

101
TELEVISION RECEIVER
100
102
TUNER
111
DISPLAY
500
107
103
IMAGE PROCESSOR
COMMUNICATION UNIT
NETWORK
104
CPU
DATA TRANSMITTER/ RECEIVER
122
105
ROM
NVRAM
108
110
109
106
RAM
REMOTE CONTROL LIGHT RECEIVER
REMOTE CONTROL
201
200
VIDEO RECORDING DEVICE
202
TUNER
RECORDER
211
207
203
IMAGE PROCESSOR
COMMUNICATION UNIT
204
CPU
DATA TRANSMITTER/ RECEIVER
222
205
ROM
NVRAM
208
210
209
206
RAM
REMOTE CONTROL LIGHT RECEIVER
REMOTE CONTROL

FIG. 14



TV (192:168:1:5)
VIDEO (192:168:1:8)
PERSONAL COMPUTER (192:168:1:21)
ETC.

FIG. 15


START
S41
INPUT
S42
DATA BROADCASTING BUTTON ?
NO
YES
S43
DATA ACQUISITION APPLIANCE IS ANOTHER APPLIANCE ?
NO
YES
S44
TRANSMIT DATA TRANSMISSION REQUEST TO THE OTHER APPLIANCE
S45
RECEIVE DATA USE FLAG
S50
REPRODUCE DATA BROADCASTING
S46
DATA USE FLAG IS ON ?
YES
NO
S47
RECEIVE DATA BROADCASTING-RELATED DATA IN NVRAM FROM THE OTHER APPLIANCE
S48
RECEIVING HAS SUCCEEDED ?
NO
B
A

F I G. 1 6

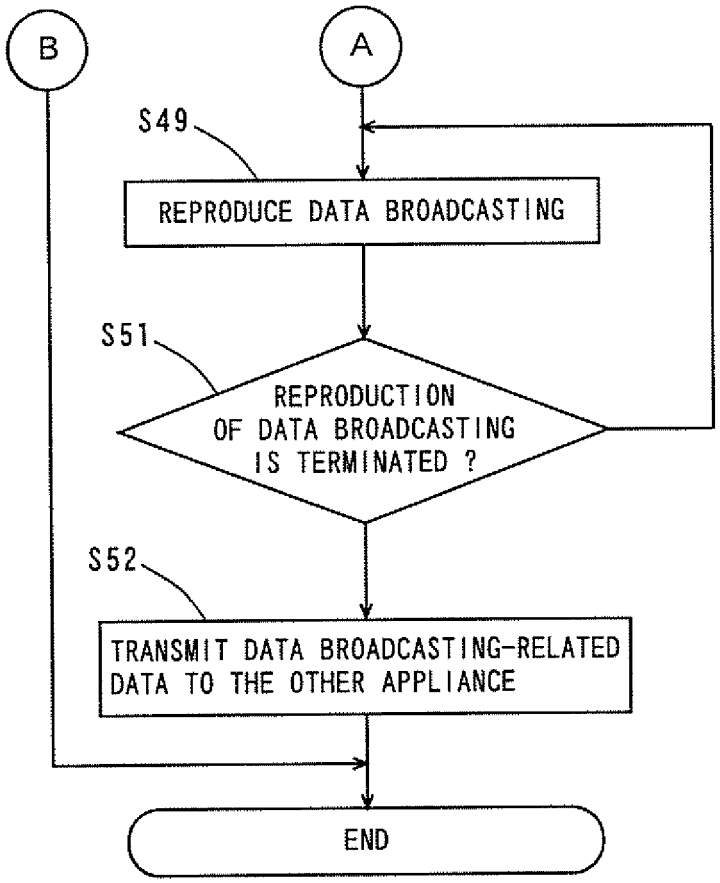

B
A
S49
REPRODUCE DATA BROADCASTING
S51
REPRODUCTION OF DATA BROADCASTING IS TERMINATED ?
S52
TRANSMIT DATA BROADCASTING-RELATED DATA TO THE OTHER APPLIANCE
END

FIG. 17

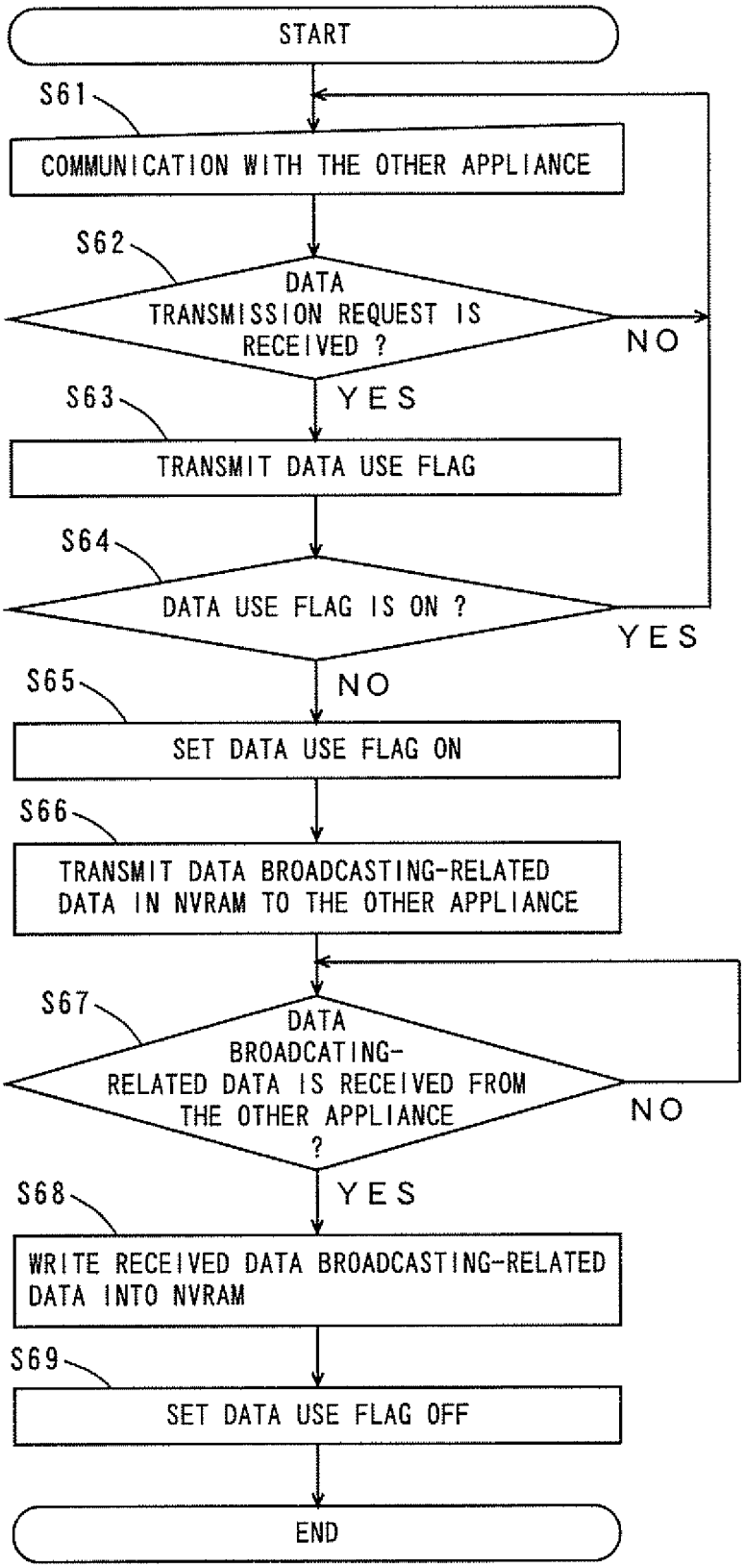
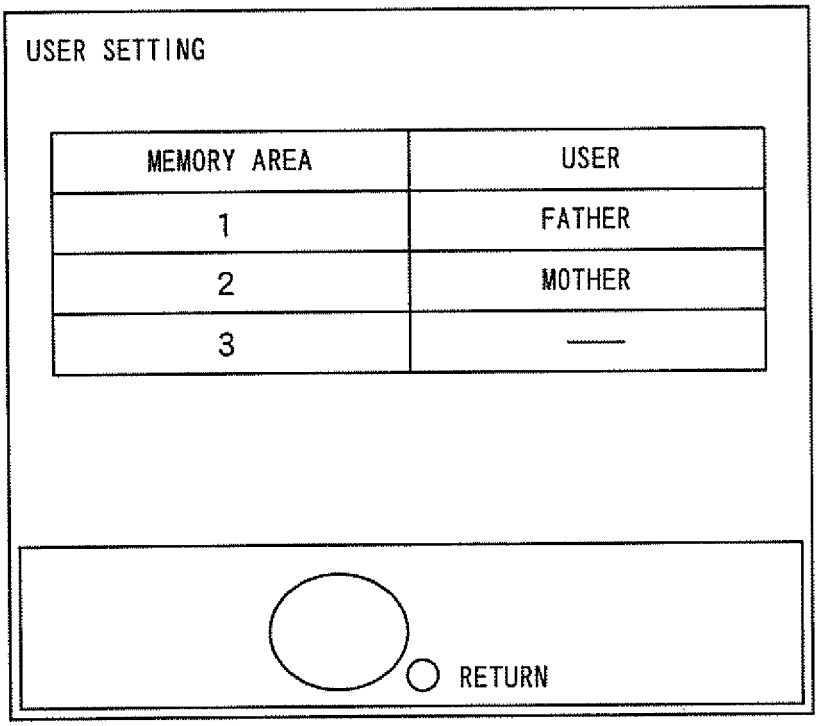

START
S61
COMMUNICATION WITH THE OTHER APPLIANCE
S62
DATA TRANSMISSION REQUEST IS RECEIVED ?
NO
YES
S63
TRANSMIT DATA USE FLAG
S64
DATA USE FLAG IS ON ?
YES
NO
S65
SET DATA USE FLAG ON
S66
TRANSMIT DATA BROADCASTING-RELATED DATA IN NVRAM TO THE OTHER APPLIANCE
S67
DATA BROADCATING-RELATED DATA IS RECEIVED FROM THE OTHER APPLIANCE ?
NO
YES
S68
WRITE RECEIVED DATA BROADCASTING-RELATED DATA INTO NVRAM
S69
SET DATA USE FLAG OFF
END

FIG. 18



F I G. 1 9

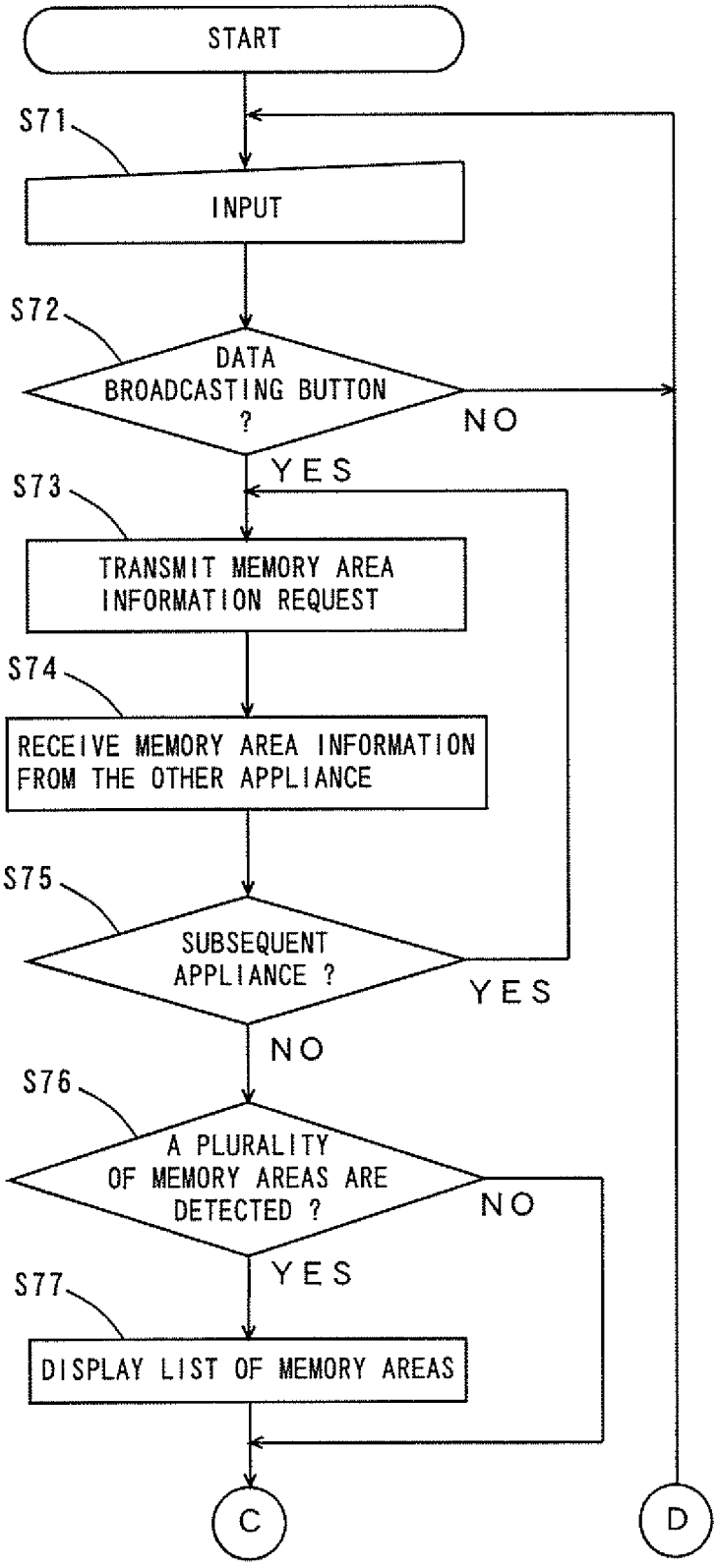

START
S71
INPUT
S72
DATA BROADCASTING BUTTON ?
NO
YES
S73
TRANSMIT MEMORY AREA INFORMATION REQUEST
S74
RECEIVE MEMORY AREA INFORMATION FROM THE OTHER APPLIANCE
S75
SUBSEQUENT APPLIANCE ?
YES
NO
S76
A PLURALITY OF MEMORY AREAS ARE DETECTED ?
NO
YES
S77
DISPLAY LIST OF MEMORY AREAS
C
D

FIG. 20

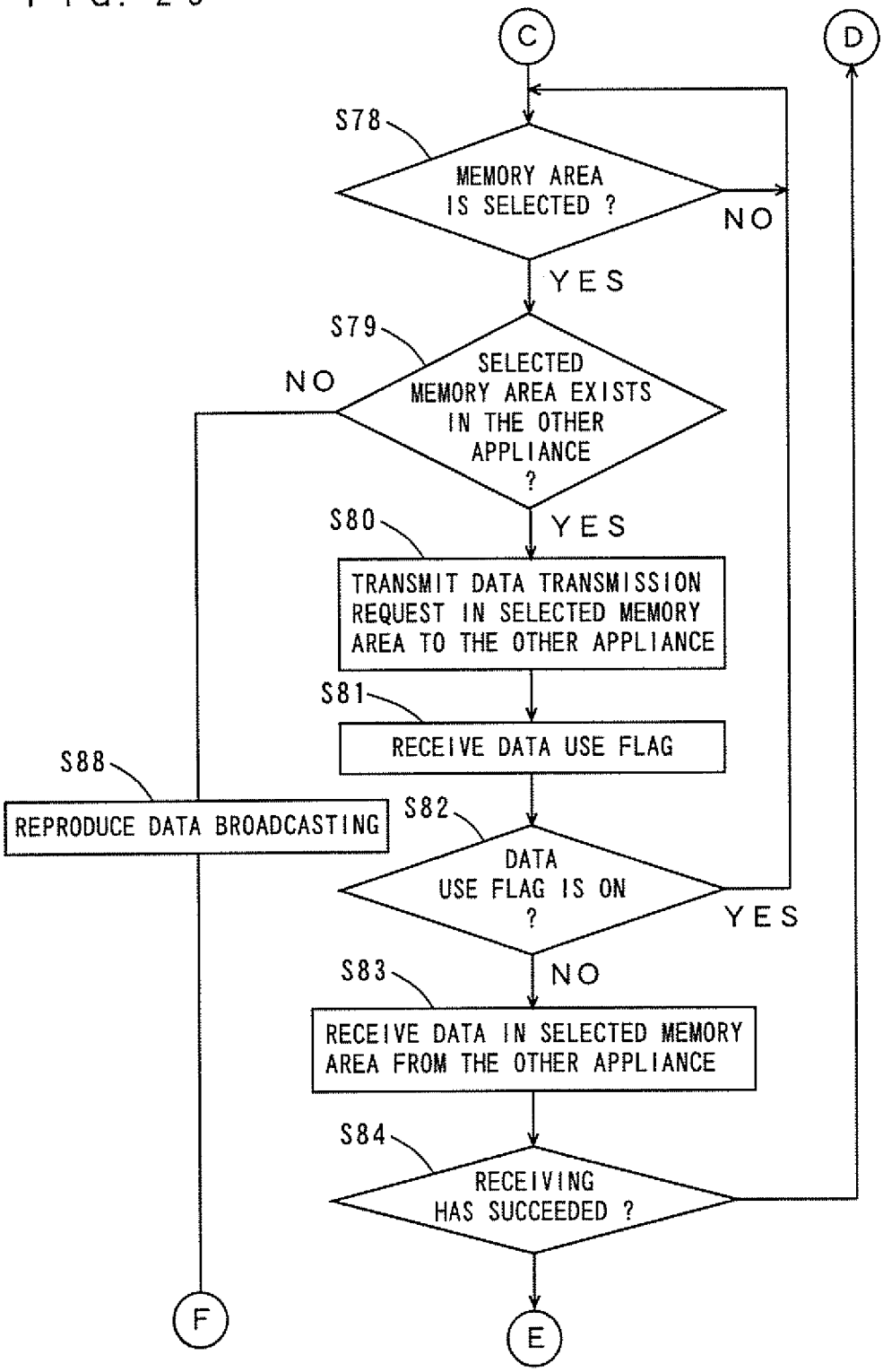

C
D
S78
MEMORY AREA IS SELECTED ?
NO
YES
S79
SELECTED MEMORY AREA EXISTS IN THE OTHER APPLIANCE ?
NO
YES
S80
TRANSMIT DATA TRANSMISSION REQUEST IN SELECTED MEMORY AREA TO THE OTHER APPLIANCE
S81
RECEIVE DATA USE FLAG
S88
REPRODUCE DATA BROADCASTING
S82
DATA USE FLAG IS ON ?
YES
NO
S83
RECEIVE DATA IN SELECTED MEMORY AREA FROM THE OTHER APPLIANCE
S84
RECEIVING HAS SUCCEEDED ?
F
E

FIG. 21

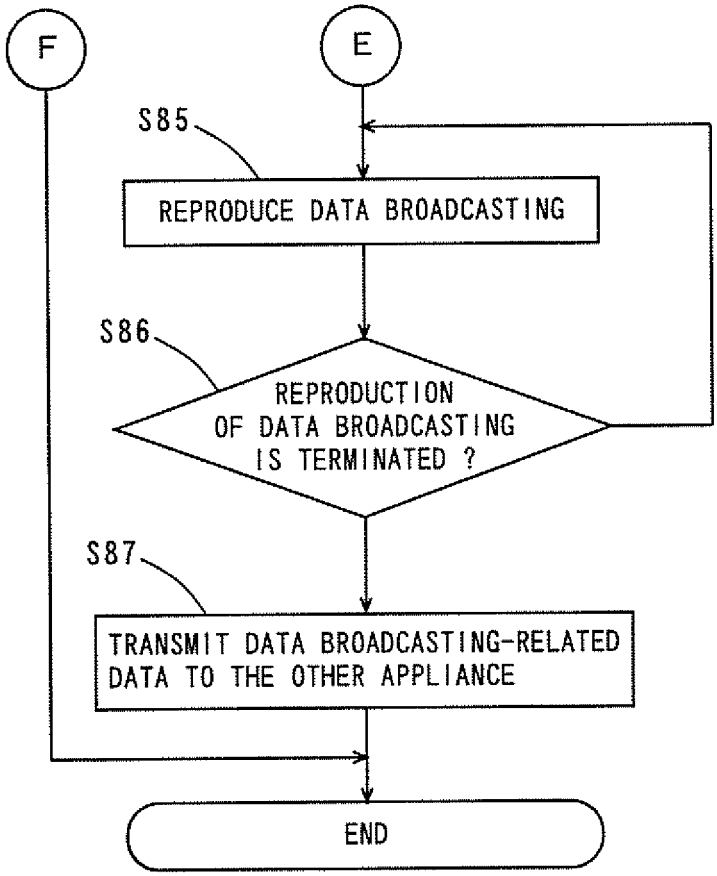

F
E
S85
REPRODUCE DATA BROADCASTING
S86
REPRODUCTION OF DATA BROADCASTING IS TERMINATED ?
S87
TRANSMIT DATA BROADCASTING-RELATED DATA TO THE OTHER APPLIANCE
END

FIG. 22

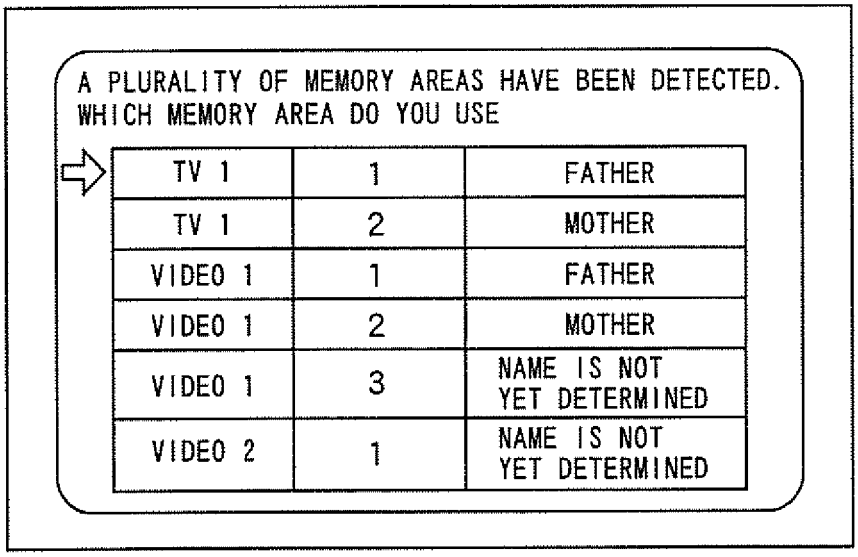
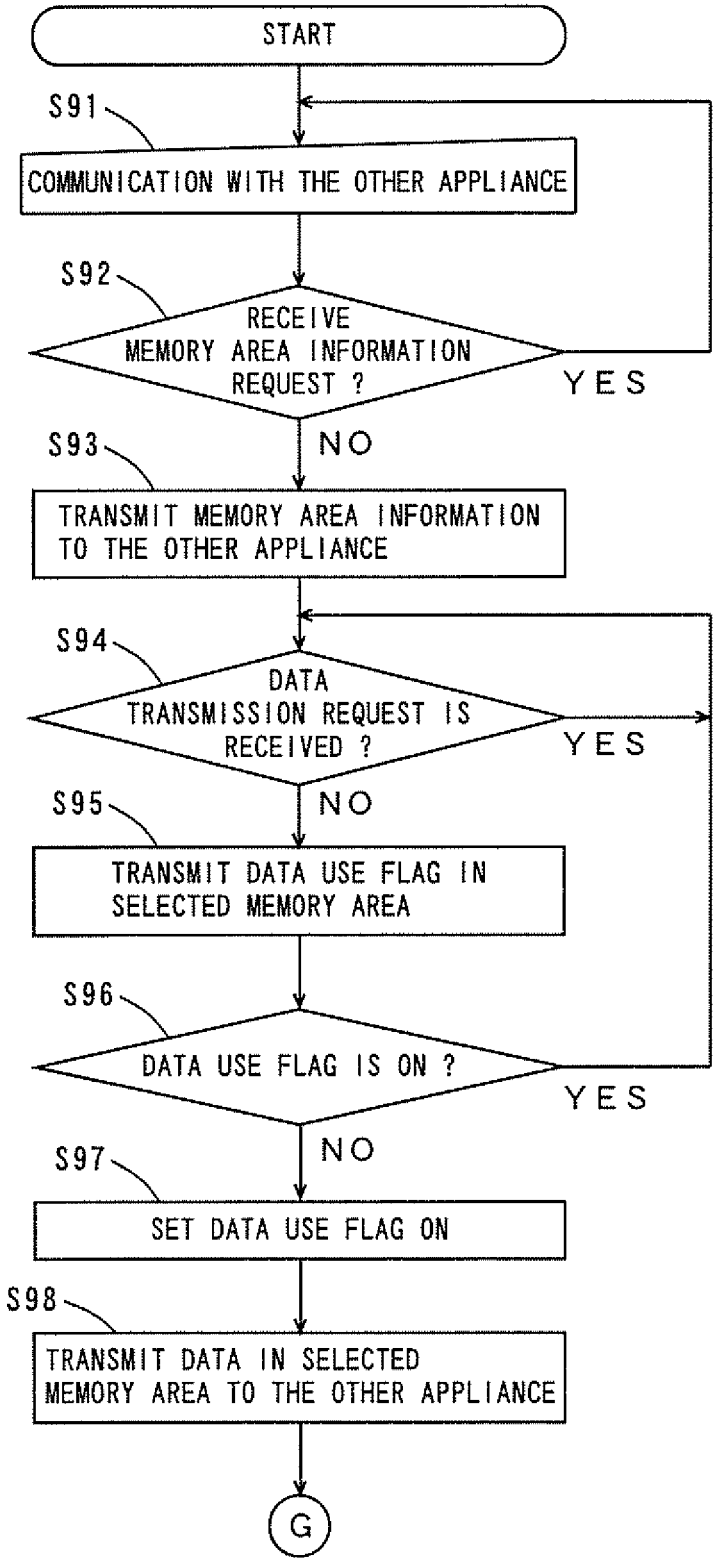

A PLURALITY OF MEMORY AREAS HAVE BEEN DETECTED.
WHICH MEMORY AREA DO YOU USE
TV 1 1 FATHER
TV 1 2 MOTHER
VIDEO 1 1 FATHER
VIDEO 1 2 MOTHER
VIDEO 1 3 NAME IS NOT YET DETERMINED
VIDEO 2 1 NAME IS NOT YET DETERMINED

FIG. 23


START
S91
COMMUNICATION WITH THE OTHER APPLIANCE
S92
RECEIVE MEMORY AREA INFORMATION REQUEST ?
YES
NO
S93
TRANSMIT MEMORY AREA INFORMATION TO THE OTHER APPLIANCE
S94
DATA TRANSMISSION REQUEST IS RECEIVED ?
YES
NO
S95
TRANSMIT DATA USE FLAG IN SELECTED MEMORY AREA
S96
DATA USE FLAG IS ON ?
YES
NO
S97
SET DATA USE FLAG ON
S98
TRANSMIT DATA IN SELECTED MEMORY AREA TO THE OTHER APPLIANCE
G

F I G. 2 4

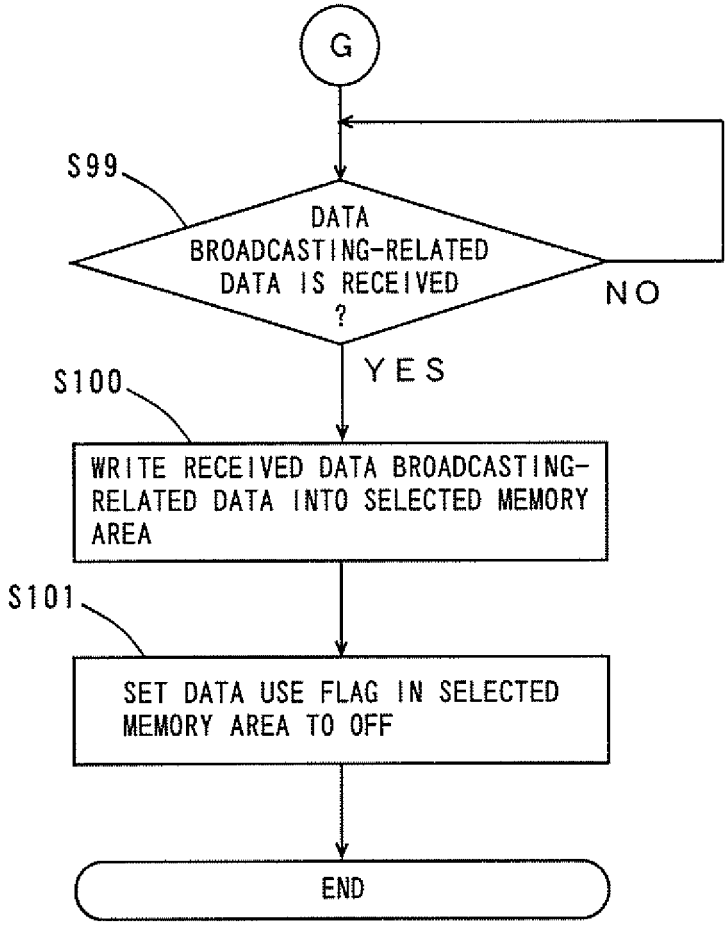

G
S99
DATA BROADCASTING-RELATED DATA IS RECEIVED ?
NO
YES
S100
WRITE RECEIVED DATA BROADCASTING-RELATED DATA INTO SELECTED MEMORY AREA
S101
SET DATA USE FLAG IN SELECTED MEMORY AREA TO OFF
END

FIG. 25

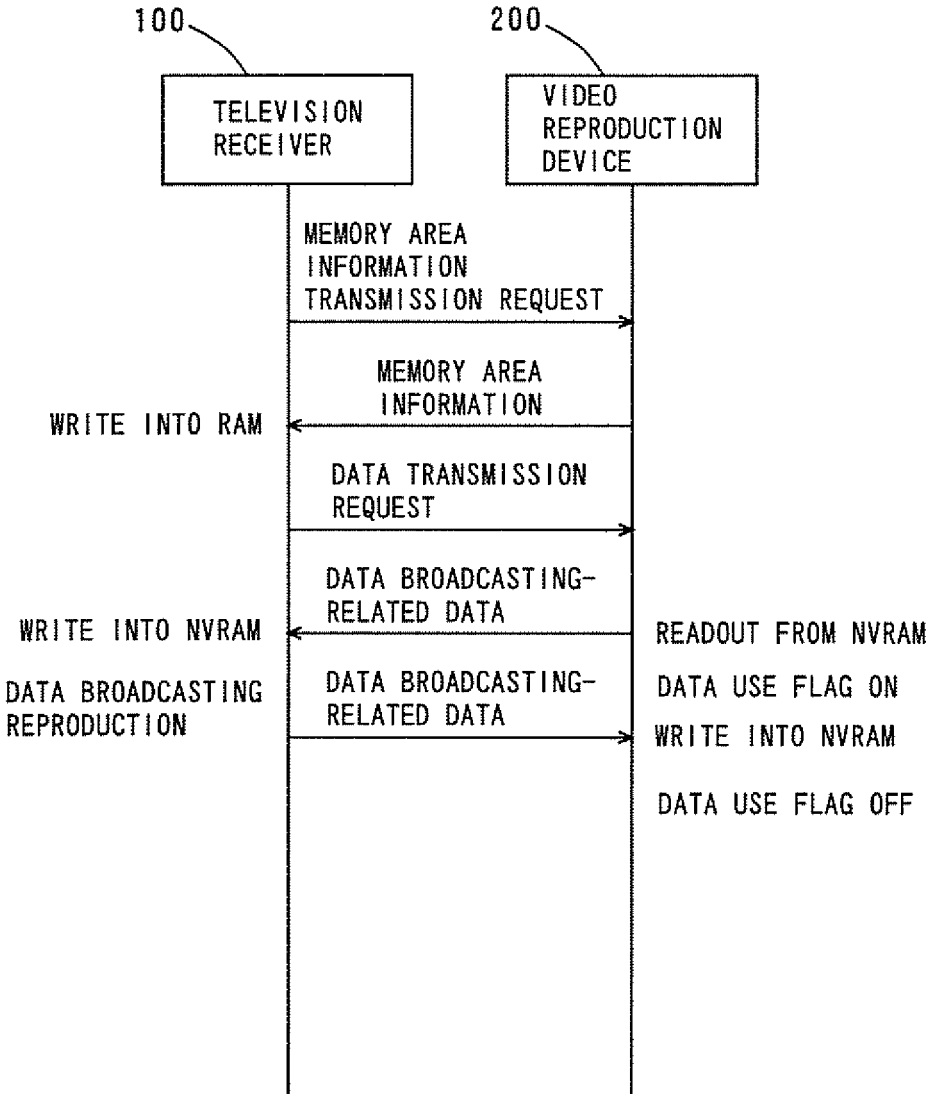
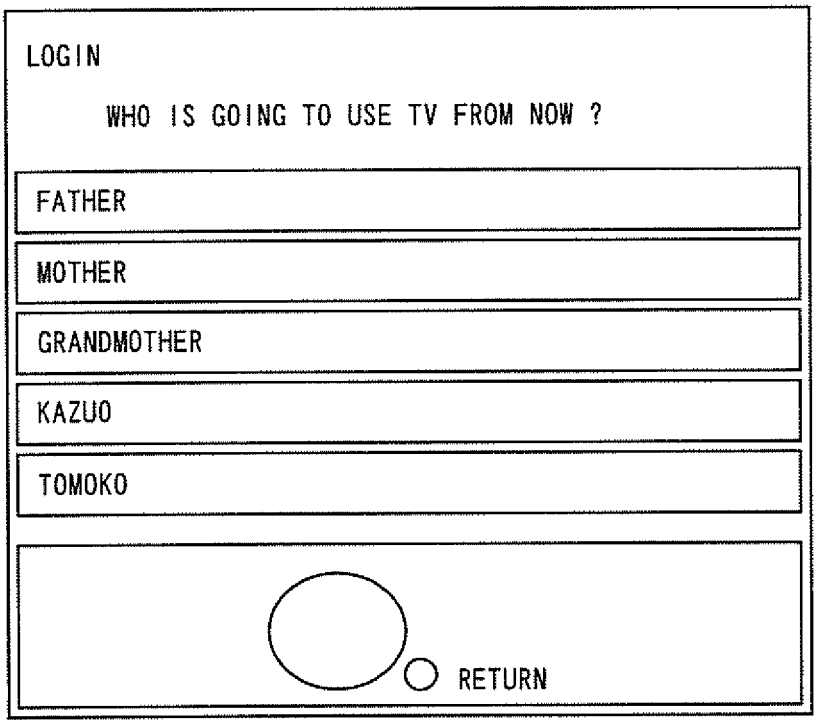

100
200
TELEVISION RECEIVER
VIDEO REPRODUCTION DEVICE
MEMORY AREA INFORMATION TRANSMISSION REQUEST
MEMORY AREA INFORMATION
WRITE INTO RAM
DATA TRANSMISSION REQUEST
DATA BROADCASTING-RELATED DATA
WRITE INTO NVRAM
READOUT FROM NVRAM
DATA BROADCASTING REPRODUCTION
DATA BROADCASTING-RELATED DATA
DATA USE FLAG ON
WRITE INTO NVRAM
DATA USE FLAG OFF

FIG. 26


LOGIN
WHO IS GOING TO USE TV FROM NOW ?
FATHER
MOTHER
GRANDMOTHER
KAZUO
TOMOKO
RETURN